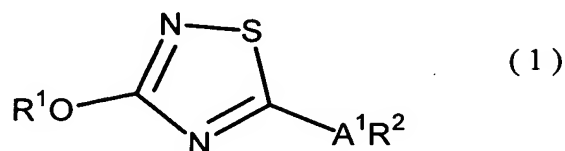


CLAIMS

1. A 1,2,4-thiadiazole compound represented by the formula (1):



wherein, R¹ represents C3-C7 alkynyl that may be substituted
 5 with halogen atom; R² represents C3-C8 cycloalkyl, C5-C8
 cycloalkenyl or C7-C11 bicycloalkyl, wherein the C3-C8 cycloalkyl,
 the C5-C8 cycloalkenyl and the C7-C11 bicycloalkyl may be
 substituted with a substituent(s) selected from a group of C1-C4
 alkyl, halogen atom and trifluoromethyl; A¹ represents a single
 10 bond, C1-C2 alkylene or C2-C3 alkylidene.

2. The 1,2,4-thiadiazole compound according to claim 1, wherein R² is
 C3-C8 cycloalkyl which may be substituted with C1-C4 alkyl in the formula
 (1).

3. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein A¹
 is single bond in the formula (1).

4. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein A¹
 20 is C1-C2 alkylene in the formula (1).

5. The 1,2,4-thiadiazole compound according to claim 1 or 2, wherein R¹
 is 2-butynyl or 2-pentynyl in the formula (1).

6. An arthropod controlling composition comprising the 1,2,4-thiadiazole compound according to claim 1 and an inert carrier.
- 5 7. A method for controlling arthropod pests comprising applying an effective dose of the 1,2,4-thiadiazole compound according to claim 1 to the arthropod pests or habitat of the arthropod pests.
8. Use of the 1,2,4-thiadiazole compound according to claim 1 for the
10 arthropod pests controlling composition.